CENTENNIAL EXPOSITION.

EDUCATION AND SCIENCE.

CATALOGUE

OF THE

EXHIBIT IN THIS DEPARTMENT

FROM THE

STATE OF ILLINOIS.

PHILADELPHIA:
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CATALOGUE.

This exhibit is prepared under the direction of the Illinois State Teachers' Association, and is made at the expense of the teachers, officers and pupils of the schools of the State.

It presents the educational condition of the State as shown by its

PRIMARY SCHOOLS,
UNGRADED DISTRICT SCHOOLS,
GRADED SCHOOLS,
HIGH SCHOOLS AND SEMINARIES,
NORMAL SCHOOLS,
COLLEGES,
INDUSTRIAL UNIVERSITY,
OTHER EDUCATIONAL AND CHARITABLE INSTITUTIONS,
MUSEUM OF NATURAL HISTORY,
OTHER EDUCATIONAL AND PROFESSIONAL WORK, and by its
DEPARTMENT OF PUBLIC INSTRUCTION.

Wherever, in the enumeration of the work of the common schools, the word volume occurs, it is understood to refer to the manuscript work of pupils in their examinations unless otherwise specified.

PRIMARY SCHOOLS.

Kindergartens. One case of children's work from Bloomington, and one volume of the same from Normal.

UNGRADED DISTRICT SCHOOLS.

McLean County, three volumes; Peoria County, three volumes and one volume of special work; Ogle County, three volumes; Adams County, two volumes; De Kalb County, one volume; Henderson County, one volume; Warren County, one volume; St. Clair County, one volume; Knox County, one volume and one portfolio of maps, drawings, etc. Numerous photographs of school-houses.

GRADED SCHOOLS.

Chicago, eighteen volumes of selected work, nineteen volumes of entire class work, eight volumes of penmanship, one volume "History of Chicago from 1673 to 1876," one volume of special work in word building, one volume of special work in composition one volume of work by deaf mutes, one volume of special work in German, one volume of special work of pupils in Jones' School, one volume of examination papers marked by teachers, one volume giving the territorial growth of the United States, one portfolio of maps and drawings, maps in frames on the wall, photographs and plans of school buildings, outlines of revised course of study, copies of the Report of the Board of Education for 1875.

Drawings. Fifteen volumes of entire class work, fourteen volumes of selected papers, five volumes of special work, one volume of mechanical drawings from the Evening High School, drawings in frames on the wall.

Danville, eight volumes, and one volume of drawings; Springfield, seven volumes, and three volumes of drawings; Belleville, six volumes, and two volumes of drawings; Marengo, eight volumes; Decatur, five volumes; Quincy, five volumes; Pittsfield, five volumes; Rochelle, four volumes; Jacksonville, three volumes; Macomb, four volumes, and one volume and one portfolio of drawings; De Kalb, three volumes; Moline, three volumes; Lebanon, two volumes, and two volumes of drawings; Bloomington, two volumes, and one volume of photographs of school buildings; Wethersfield, two volumes; Galesburg, one volume; Peoria, one volume; Sycamore, one volume; Lake View, one volume; Grand Detour, one volume; Creston, one volume; Adeline, one volume; Champaign, one volume; Rantoul, one volume; Genesee, one volume; Colona, one volume; New Athens, one volume; Carlyle, one volume; Payson, one volume; Maplewood, one volume; Nora, one volume; Clear Creek, one volume; Monmouth, one volume; Monmouth and Kirkwood, one volume; Oneida, Knoxville and Yates City, one volume.

The volumes included in the following list embrace the work of the High Schools as well as that of the Graded Schools.

Aurora, eighteen volumes, one portfolio of drawings and one of statistics, plans of buildings, etc.; Paris, eight volumes, and one lot of maps; Mascoutah, four volumes; Griggsville, three volumes; Forreston, two volumes, and one volume of drawings; Polo, two volumes; Lake and Hyde Park, two volumes; Carthage, one volume; Blue Island, one volume; Hyde Park, one volume; Evanston, one volume; Byron, one volume; Mt. Morris, one volume; Oregon, one volume; Galva, one volume; Geneva, one volume. Photographs and plans of school buildings and programmes of schools.

HIGH SCHOOLS AND SEMINARIES.

Chicago, sixteen volumes; Princeton, six volumes, one portfolio of maps and one volume of catalogues, plans, etc.; Decatur, four volumes; Rochelle, three volumes; Springfield, two volumes, and two published papers; Wethersfield, two volumes, one volume of drawings and one portfolio of plants; Quincy, two volumes; Galesburg, two volumes; Champaign, two volumes; Belleville, one volume, and one volume of drawings; Macomb, one volume, one number of the High School Journal and one volume of drawings; Altona, one volume; Tolono, one volume; Geneva, one volume; Bloomington, one volume; Nora, one volume; Marengo, one volume; Pittsfield, one volume; Lebanon, one volume; Jacksonville, one volume; Danville, one volume; Peoria, one volume; Lake View, one volume; Rock River Seminary, one volume; St. Mary's School, Knoxville, one volume; catalogues of schools, plans of school buildings, etc.

NORMAL SCHOOLS.

Cook County, one volume, and one volume of catalogues, etc.; Peoria County, one volume, and one portfolio of maps; Aurora city, one volume; Normal University, six volumes, one volume giving the plans and purposes of the University, one volume of diaries of the pupil teachers, one volume of maps, one volume of drawings and one volume of photographs of building; Southern Normal University, nine volumes of manuscripts, three volumes of drawings, and photographs and plans of building.

COLLEGES.

Knox, one volume of history of the college and manuscript work; Westfield, one volume; Lombard University, one volume; Monmouth, one volume of college contests and one volume of catalogues; Wesleyan, one volume of catalogues; unbound catalogues of numerous colleges, and photographs and plans of college buildings.

ILLINOIS INDUSTRIAL UNIVERSITY.

I. College of Engineering.

1. *School of Mechanical Engineering.*
   Twenty-four mechanical models made by students.
   One thermometer-graduating machine made by students.
   Six portfolios of drawings and manuscripts.
2. *School of Civil Engineering.*
   Twenty-two portfolios of manuscripts and drawings.
   Plan of the triangulations of the University.
   Engineering and astronomical instruments.
   Two frames of topography.
   Model of Bridge.
3. *School of Mining Engineering.*
   Nine pieces of illustration apparatus.
4. *School of Architecture.*
   Fifty architectural drawings in frames and portfolios.
   Eleven portfolios of projection drawings.
   Twenty original designs in frames and portfolios.
   Two models of stairs—students' work.
   Two designs in plaster.
   Two copies in plaster.
   One piece of Greek statuary in clay.
   Five portfolios of manuscripts.
   Six capitals done in ink.

II. College of Natural Science.

1. *School of Chemistry.*
   One hundred and thirty-four jars of chemicals prepared by students in laboratory practice.
   Student's set of apparatus.
2. *School of Natural History.*
   (1.) *Botany.*
   a. Plants in Herbarium.
   b. Woods and shrubs of Illinois—170 prepared specimens. (In Mineral Annex.)
   (2.) *Zoology, Conchology.*
   a. Birds—45 specimens—prepared by students.
   b. Mammalia—specimens.
   c. Shells—125 species—from Illinois. (In Mineral Annex.)
   d. Entomological specimens, represented by two orders—
   (*a.*) Coleoptera—300 species.
   (*b.*) Lepidoptera—150 species.
   (3.) *Mineralogy.* (In Mineral Annex.)
   A display of minerals from Jo Davies County by Gen. J. C. Smith.
   Lead ores, sheet and crystal.
   Zinc ores, blackjack, sulphuret.
   Zinc ores, drybone, carbonate.
   Sulphuret of iron.
   Dog-tooth spar.
   Nail-head spar.
   Two pigs of lead.

Fire clays, with manufactured specimen.
Kaolin.

(4.) *Geology.*

Eight specimens of building stone, sand and lime. (In Mineral Annex.)
College set of geological casts from Ward's Museum. (In Agricultural Hall.)

(5.) *Archæology.* (In Mineral Annex.)

One hundred and sixty-five (165) specimens of axes, chisels, hoes, pestles, knives spears, arrow heads, pipes, awls, etc., etc.

III. College of Agriculture.

169 specimens of corn coming from all parts of U. S. and British Provinces, and showing the climatic variations. (In Agricultural Hall.)
23 varieties of husking pegs. (In Agricultural Hall.)
10 models of ancient ploughs. (In Agricultural Hall.)
Specimens of grain. (In Mineral Annex.)

Wheat,	26	glass globes.
Oats,	12	" "
Rye,	3	" "
Buckwheat,	2	" "
Corn,	2	" "
Peas,	3	" "
Millet,	1	" "
Barley,	1	" "
Tares,	1	" "
Cloverseed,	1	" "

IV. Other Schools not included in the four Colleges.

1. *Military.*
2. *School of Commerce.*

One portfolio of students' manuscripts.

3. *Domestic Science and Art.*

One portfolio of students' manuscripts.

4. *Free Hand-Drawing.*

(1.) *In Portfolios.*

One portfolio of sketches as prepared for shading.
" " " copies, first term's work of students.
" " " drawings made from memory.
Three " " original designs, first and second terms.
One " " comic designs, advanced students.
" " " object drawings, first term.
" " " cast drawings, first term.
" " " miscellaneous drawings.
" " " sketches or outline drawings, first term.
" " containing the entire first term's work of four students.

(2.) *In frames.*

Four drawings from casts.
Four enlarged from photographs.
Two original designs.
Five copies from flat.

V. Miscellaneous Matter.

1. Twenty-five photographic views of the Illinois Industrial University, made at the Chemical Laboratory.
2. Bulletin Board of the Alethenai (young ladies') Literary Society.
3. Six cases in which the Illinois Educational Exhibit is made; work of students in carpenter shops.

OTHER EDUCATIONAL AND CHARITABLE INSTITUTIONS.

Central Hospital for the Insane, Jacksonville. One bird's-eye view, one view in perspective, one plan of main floor.

Northern Hospital for the Insane, Elgin. One bird's-eye view, one view in perspective.

Institution for the Blind, Jacksonville. One bird's-eye view, one plan of the grounds, one front elevation, one plan of the basement, one of each of the four stories, and one of the dining-hall.

Institution for the Deaf and Dumb, Jacksonville. Five volumes of manuscript work and photographs of pupils, one bird's-eye view, one plan of grounds, one of the base ment, one of the first story, one of the second story, one of the dining-hall, one of the chapel, one of the work-shop, one of the school-house, one of the engine-house, one front elevation, one end elevation, and two side elevations of the dining-hall.

NATURAL HISTORY.

This exhibit is intended to show what the State Museum will do as a medium of exchange, and supply of specimens to the schools of the State, and also what the schools do for themselves.

State Museum. Alcoholic specimens, forty-six in all; collection of corals; collection of shells; four cases of insects; three cases of botanical specimens.

Public schools. Collection of birds from Aurora and Delevan; three cases of insects from Aurora; two cases of birds' nests and eggs from Quincy.

Catalogue of the Paleontological Division of the Cabinet of Dr. W. H. Chapman, Peoria.

OTHER EDUCATIONAL AND PROFESSIONAL WORK.

One volume of addresses before the State Teachers' Association, 1875; two volumes of teachers' work from Ogle County; one volume of teachers' work from Warren County; one volume from Teachers' Institute of Peoria County; one volume from Teachers' Institute of Peoria city; one volume of examination questions from Bureau County; four volumes of the Alumni Journal; one volume Home Monthly; one combined County and State Atlas; one illustrated Farm Atlas: one illustrated Historical Atlas of St. Clair County; ten portfolios of work in bookkeeping and business forms from Jacksonville Business College; one set of Easterday's Diagram of Compound Numbers; one globe from the Oquawka Grammar School; Stofflet's U. S. Government School Chart; miscellaneous pamphlets and manuscripts.

ILLINOIS PUBLICATIONS.

One set of the publications of S. C. Griggs & Co, Chicago, twenty-six volumes; educational publications of Geo. Sherwood & Co., Chicago; publications and blanks for schools and Sabbath-schools from the Adams, Blackmer & Lyon Publishing Company, Chicago; thirty volumes of works written by Illinois authors; specimen copies of the monthly, weekly and daily publications of the State, two hundred and sixty-seven in all.

REPORTS OF SCHOOL BOARDS.

One complete set from the Chicago Board of Education, ten volumes; two volumes from Springfield; one volume from Peoria; one volume from Jacksonville; pamphlet reports from various cities and towns.

DEPARTMENT OF PUBLIC INSTRUCTION.

One set of reports of the State Superintendent, ten volumes.

I. Outline of the School System.

Its field of administration embraces

1. The State.
2. The County.
3. The Township.
4. The School District.

II. Its Officers are,

1. A State Superintendent of Public Instruction, having the general supervision of the whole system; elected by the people; term of office, four years; and making biennial reports to the governor.

2. A County Superintendent for each county, having the general supervision of all common schools and school business in the county, having sole power to examine and license teachers, elected by the people, holding office four years, and reporting annually to the State Superintendent.

3. A board of three trustees for each township, having in charge the school interests of the township, the establishment and change of school districts, elected by the people, one each year, and reporting annually to the County Superintendent.

4. A Board of three Directors for each district, who employ and pay all teachers, provide school-houses, levy all taxes necessary to the support of schools, attend to all the common school interests of their districts, elected by the people of their respective districts, one each year, and report to the Board of Trustees of their township.

A Board of Trustees of the State Industrial University, nominated by the Governor and confirmed by the Senate.

Two Boards of Education, appointed in the same manner, whose duties are to take charge of the State Normal Universities.

County Boards of Education, elected by the Boards of Supervisors. Their duties are to take charge of the County Normal Schools.

III. The Schools.

The schools provided for by the laws of the State are the District Schools, High Schools, County Normal Schools, State Normal Universities and the State Industrial University.

They are free. No tuition fee can be imposed. The common schools must be sustained five months each year before they can share the public funds. They may be continued longer if these funds will allow, or by means of a special tax not to exceed two per cent. of the valuation of the property of the district. The branches taught are orthography, reading, penmanship, arithmetic, grammar, geography, and history of the United States. Other branches may be introduced whenever, in the judgment of the Board of Directors, the interests of the district require such introduction.

IV. The Teachers.

They must be of good moral character and qualified to teach the branches already named. They must possess the certificate of the County Superintendent before they can be employed by any Board of Directors, or receive in payment for their services any part of the school fund.

Certificates are of three grades:

1. State, of perpetual validity in the State, granted on public examination by the State Superintendent.

2. First Grade, good for two years in the county, granted by the County Superintendent.

3. Second Grade, good for one year in the county, also granted by the County Superintendent.

Teachers must keep schedules, noting names, ages, etc., of their pupils before they can receive pay from the public funds.

They receive payment of salary monthly.

V. Pupils.

Age, between six and twenty-one.

Must attend in their respective districts, unless by written consent of both Boards of Directors.

May be admitted if over twenty-one by payment of tuition.

VI. School Funds.

The principal of the permanent school fund of the State is derived from the sale of public lands, from money received by the State from the United States, and from miscellaneous sources.

The schools are supported by the income derived from this principal, increased by

The State Tax Funds, arising from a levy of two mills on every dollar of the valuation of taxable property in the State; also by

The District Tax Fund, being the tax levied by the people in their respective districts, and by

Fines and Forfeitures.

The school funds are distributed by the State Auditor to the County Superintendents, by them to the Township Trustees, and by them to the District Boards.

The distribution is made in proportion to the number of children under twenty-one years of age.

Other Features.

No special school laws.

No division of any public fund whatever in aid of any sectarian purpose, or to help support any school or literary institution controlled by any church or sect.

SCHOOL STATISTICS FOR THE YEAR 1874.

Population of the State in 1870	2,539,891
Number of persons under twenty-one years of age	938,878
Whole number of school districts	11,285
Number of districts having school five months or more	11,011
Total number of pupils enrolled	671,775
Whole number of teachers, male 9,036, female 12,093, total	21,129
Aggregate number of months taught	99,926
Percentage of enrollment to school census	71
" " average daily attendance to school census	40
" " " " " to enrollment	57
Whole number of graded schools	754
Number of public high schools	116
" " volumes in district school libraries	52,747
" " school houses	11,434
Total receipts for all school purposes in 1874	$9,292,516
" expenditures	7,865,682
Number of State Normal Universities	2
" " County Normal Schools	2
" " pupils pursuing normal course in the Normal Universities	415
" " " " " " " County Normal Schools	235
Cost per scholar on school census for tuition and incidentals	$5·60
" " on enrollment for same	7·82
" " on average daily attendance	13·73
Amount of permanent common school fund	$6,573,803

S. M. ETTER,
J. M. GREGORY,
J. L. PICKARD,
J. A. SEWALL,
D. A. WALLACE. } Ex Com.

S. H. WHITE, *Agent.*

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